



FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V17]

DATE RECORD: First Rec: 3/22/19 Admin Complete: 6/12/19 or Suspended: _____ Add. Request/Reply: _____

ORDER TYPE: WFX / PMX / SWD Number: 2004 Order Date: _____ Legacy Permits/Orders: _____

Well No. 1 Well Name(s): McCrae SWD

API: 30-015 - Pending Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)

Footages 275' FML 1000' FEL Lot _____ or Unit A Sec 33 Tsp 19 S Rge 28 E County Eddy

General Location: ~12 miles North North East of Carlsbad Pool: SWD Devonian - Silurian Pool No.: 97869

BLM 100K Map: Artesia Operator: Solaris Water Midstream, LLC OGRID: 371643 Contact: Ramona Hovey

COMPLIANCE RULE 5.9: Total Wells: 22 Inactive: 0 Fincl Assur: OK Compl. Order? No IS 5.9 OK? Yes Date: 10/1/19

WELL FILE REVIEWED Current Status: new well

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: _____

Planned Rehab Work to Well: N/A

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement <u>Sx</u> or Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> Surface		18.125 / 16	614	308	surface / circulation
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> <u>Interm/Prod</u>		14.75 / 13.375	2594	462	surface / circulation
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> <u>Interm/Prod</u>		12.25 / 9.625	924	2905	surface / circulation
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> <u>Prod/Liner</u>		8.5 / 7.625	924 to 12094	459	924 / CBL
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> <u>Liner</u>					
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> <u>OH/ PERF</u>		6.5	12094 to 14294		
				Inj Length 2200	

Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			Mississippian	
Confining Unit: Litho. Struc. Por.			woodford shale	
Proposed Inj Interval TOP:	12094		Devonian	12094
Proposed Inj Interval BOTTOM:	14294		Fosselman	
Confining Unit: Litho. Struc. Por.				14294
Adjacent Unit: Litho. Struc. Por.			Ordovician	

Completion/Operation Details:

Drilled TD N/A PBDT N/A
 NEW TD 14294 NEW PBDT N/A
 NEW Open Hole or NEW Perfs
 Tubing Size 55/5 in. Inter Coated? Yes
 Proposed Packer Depth 12094 ft
 Min. Packer Depth 11994' (100-ft limit)
 Proposed Max. Surface Press. 2419 psi
 Admin. Inj. Press. 2419 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P No Noticed? N/A BLM Sec Ord No WIPP No Noticed? N/A Salt/Salado T: 594 B: 844 **NW:** Cliff House fm No

USDW: Aquifer(s) Rustler Max Depth < 600 **HYDRO AFFIRM STATEMENT** By Qualified Person

NMOSE Basin: Capitan **CAPITAN REEF;** thru _____ adj NA No. GW Wells in 1-Mile Radius? 0 FW Analysis? no

Disposal Fluid: Formation Source(s) Artesia / Rio Springs / narrow Analysis? Yes On Lease Operator Only or Commercial

Disposal Interval: Inject Rate (Avg/Max BWPD): 30000 / 40000 Protectable Waters? No Source: Adj Production System: Closed or Open

HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other mudlog 2-Mi Radius Pool Map

AOR Wells: 1/2-M _____ or ONE-M **RADIUS MAP/WELL LIST:** Total Penetrating Wells: 0 [AOR Hor: _____ AOR SWDs: _____]

Penetrating Wells: No. Active Wells 0 No. Corrective? 0 on which well(s)? N/A Diagrams? N/A

Penetrating Wells: No. P&A Wells 0 No. Corrective? 0 on which well(s)? N/A Diagrams? N/A

Induced-Seismicity Risk Assess: analysis submitted Yes historical/catalog review Yes fault-slip model No probability low

NOTICE: 1/2-M _____ or ONE-M : Newspaper Date 3/1/19 Mineral Owner* EOG Surface Owner Narley Winston Carol Bailford N. Date 3/21/19

RULE 26.1: Identified Tracts? Yes Affected Persons*: many (see packet) N. Date 3/21/19

* new definition as of 12/28/2018 [any the mineral estate of United States or state of New Mexico; SWD operators within the notice radius]

Order Conditions: Issues: _____

Additional COAs: _____